

1

Please amend claim 1 as follows:

5 1. (Once amended) A wall designed to resist lateral forces imposed on a building incorporating said wall, said wall comprising:

10 a. an underlying structural component that is part of said building, and a bottom plate resting on and connected to said underlying structural component of said building;

15 b. a plurality of vertically-disposed studs resting on and connected to said bottom plate;

c. a top plate resting on and connected to said vertically-disposed studs;

d. a shear-resisting assembly connected to said top plate and also connected to said underlying structural component and disposed between said top plate and said underlying structural component, said shear-resisting assembly including,

20 1. a planar shear-resisting element, said planar shear-resisting element having a proximal face and a distal face, a top edge, a bottom edge and first and second side edges, said shear-resisting assembly also including,

25 2. a top strut connected to said top edge of said shear-resisting element, and disposed substantially parallel to said top plate of said wall,

3. a bottom strut connected to said bottom edge of said shear-resisting element,

30 4. a first chord connected to said first side edge of said shear-resisting element, and

5. a second chord connected to said second side edge of said shear-resisting element; and wherein

fasteners having a threaded shank portion are inserted through said top strut of said shear-resisting assembly and into said top plate to connect said shear resisting assembly to said top plate.

Please add the following additional claims:

35

The wall of claim 1, further comprising:

B2  
Sub  
cl 7

24

B

- 1 a. first and second anchor bolts that are anchored to said underlying structural component;
- b. first and second holdowns that receive and are connected to said first and second anchor bolts, respectively, and are also connected to
- 5 said first and second chords, respectively.

33  
36. A wall designed to resist lateral forces imposed on a building incorporating said wall, said wall comprising:

- 10 a. an underlying structural component that is part of said building, and a bottom plate resting on and connected to said underlying structural component of said building;
- b. a plurality of vertically-disposed studs resting on and connected to said bottom plate;
- 15 c. a top plate resting on and connected to said vertically-disposed studs;
- d. a shear-resisting assembly connected to said top plate and also connected to said underlying structural component and disposed between said top plate and said underlying structural component, said shear-resisting assembly including,
  - 20 1. a planar shear-resisting element, said planar shear-resisting element having a proximal face and a distal face, a top edge, a bottom edge and first and second side edges, said shear-resisting assembly also including,
  - 25 2. a top strut connected to said top edge of said shear-resisting element, and disposed substantially parallel to said top plate of said wall,
  - 30 3. a bottom strut connected to said bottom edge of said shear-resisting element,
  - 4. a first chord connected to said first side edge of said shear-resisting element, and
  - 5. a second chord connected to said second side edge of said shear-resisting element; and wherein
- 35 said shear-resisting assembly rests directly on said underlying structural component and said first and second chords of said shear-resisting assembly rest directly on said underlying structural component.

C1  
BZ

25

B

1 ~~37~~ <sup>41 9</sup>

The wall of claim ~~36~~ <sup>33 3</sup>, wherein:  
said first and second chords are formed from wood.

5 ~~38~~ <sup>5</sup>

The wall of claim ~~36~~ <sup>33 3</sup>, further comprising:  
a. first and second anchor bolts that are anchored to said underlying structural component;  
b. first and second holdowns that receive and are connected to said first and second anchor bolts, respectively, and are also connected to said first and second chords, respectively.

10

~~39~~ <sup>66</sup>

The wall of claim ~~37~~ <sup>44 4</sup>, further comprising:  
a. first and second anchor bolts that are anchored to said underlying structural component;  
b. first and second holdowns that receive and are connected to said first and second anchor bolts, respectively, and are also connected to said first and second chords, respectively.

15

20 ~~40~~ <sup>7 7</sup>

A wall designed to resist lateral forces imposed on a building incorporating said wall, said wall comprising:  
a. an underlying structural component that is part of said building, and a bottom plate resting on and connected to said underlying structural component of said building;  
b. a plurality of vertically-disposed studs resting on and connected to said bottom plate;  
c. a top plate resting on and connected to said vertically-disposed studs;  
d. a shear-resisting assembly connected to said top plate and also connected to said underlying structural component and disposed between said top plate and said underlying structural component, said shear-resisting assembly including,

25

30

35

1. a planar shear-resisting element, said planar shear-resisting element having a proximal face and a distal face, a top edge, a bottom edge and first and second side edges, said shear-resisting assembly also including,

1                    2. a top strut connected to said top edge of said shear-resisting  
                       element, and disposed substantially parallel to said top plate of  
                       said wall,  
                       3. a bottom strut connected to said bottom edge of said  
 5                    shear-resisting element,  
                       4. a first chord connected to said first side edge of said  
                       shear-resisting element, and  
                       5. a second chord connected to said second side edge of said  
                       shear-resisting element; and wherein  
 10                   said shear-resisting assembly rests directly on said underlying  
                       structural component and said first and second chords of said  
                       shear-resisting assembly rest on standoff plates resting directly on said  
                       underlying structural component.

Cl 8 8  
~~41~~

15                   ~~41~~. The wall of claim ~~40~~, wherein:  
                       said first and second chords are formed from wood.

9 9  
~~42~~

~~42~~. The wall of claim ~~40~~, further comprising:  
                       a. first and second anchor bolts that are anchored to said underlying  
 20                   structural component;  
                       b. first and second holdowns that receive and are connected to said  
                       first and second anchor bolts, respectively, and are also connected to  
                       said first and second chords, respectively.

10 10  
~~43~~

25                   ~~43~~. The wall of claim ~~41~~, further comprising:  
                       a. first and second anchor bolts that are anchored to said underlying  
                       structural component;  
                       b. first and second holdowns that receive and are connected to said  
 30                   first and second anchor bolts, respectively, and are also connected to  
                       said first and second chords, respectively.

11 11  
~~44~~

35                   ~~44~~. A wall designed to resist lateral forces imposed on a building  
                       incorporating said wall, said wall comprising:  
                       a. an underlying structural component that is part of said building, and  
                       a bottom plate resting on and connected to said underlying structural  
                       component of said building;

- 1 b. a plurality of vertically-disposed studs resting on and connected to said bottom plate;
- c. a top plate resting on and connected to said vertically-disposed studs;
- 5 d. a shear-resisting assembly connected to said top plate and also connected to said underlying structural component and disposed between said top plate and said underlying structural component, said shear-resisting assembly including,

- 10 1. a planar shear-resisting element, said planar shear-resisting element having a proximal face and a distal face, a top edge, a bottom edge and first and second side edges, said shear-resisting assembly also including,
- 15 2. a top strut connected to said top edge of said shear-resisting element, and disposed substantially parallel to said top plate of said wall,
- 3. a bottom strut connected to said bottom edge of said shear-resisting element,
- 4. a first chord connected to said first side edge of said shear-resisting element, and
- 20 5. a second chord connected to said second side edge of said shear-resisting element;

e. first and second anchor bolts that are anchored to said underlying structural component;

25 f. first and second holdowns that receive and are connected to said first and second anchor bolts, respectively, and are also connected to said first and second chords, respectively, by fasteners having threaded shank portions.

30 ~~45.~~ <sup>12</sup> The wall of claim ~~44~~ <sup>11</sup>, wherein:  
said threaded fasteners are inserted only a selected distance into said first and second chords without passing all the way through said first and second chords.

35 ~~46.~~ <sup>13</sup> A wall designed to resist lateral forces imposed on a building incorporating said wall, said wall comprising:

cl

Handwritten scribble

- 1 a. an underlying structural component that is part of said building, and
- a bottom plate resting on and connected to said underlying structural
- component of said building;
- 5 b. a plurality of vertically-disposed studs resting on and connected to
- said bottom plate;
- c. a top plate resting on and connected to said vertically-disposed
- studs;
- d. a shear-resisting assembly connected to said top plate and also
- connected to said underlying structural component and disposed
- 10 between said top plate and said underlying structural component, said
- shear-resisting assembly including,

- 1. a planar shear-resisting element, said planar shear-resisting
- element having a proximal face and a distal face, a top edge, a
- bottom edge and first and second side edges, said
- 15 shear-resisting assembly also including,
- 2. a top strut connected to said top edge of said shear-resisting
- element, and disposed substantially parallel to said top plate of
- said wall,
- 3. a bottom strut connected to said bottom edge of said
- 20 shear-resisting element,
- 4. a first chord connected to said first side edge of said
- shear-resisting element, and
- 5. a second chord connected to said second side edge of said
- shear-resisting element; and wherein

25 said planar shear resisting element is made from wood and edge  
 fasteners having a shank portion connect said top strut, said bottom  
 strut, said first chord and said second chord to said shear-resisting  
 element, and boundary edging members disposed on said  
 shear-resisting element at said first and second side edges are pierced  
 30 by said shank portions of said edge fasteners and thereby strengthen  
 the connection made by said edge fasteners.

35 The wall of claim 46, wherein:  
 said boundary edging members are u-shaped channels, having a pair of  
 legs joined by a central member that embrace said shear-resisting

C1  
 B2

14 19  
 47

3 13

29

B

1 element, each of said edge fasteners passing through each of said legs  
of said u-shaped channels.

48. The wall of claim 46, further comprising:  
5 a. first and second anchor bolts that are anchored to said underlying  
structural component;  
b. first and second holdowns that receive and are connected to said  
first and second anchor bolts, respectively, and are also connected to  
said first and second chords, respectively.

49. The wall of claim 47, further comprising:  
10 a. first and second anchor bolts that are anchored to said underlying  
structural component;  
b. first and second holdowns that receive and are connected to said  
15 first and second anchor bolts, respectively, and are also connected to  
said first and second chords, respectively.

50. A wall designed to resist lateral forces imposed on a building  
incorporating said wall, said wall comprising:  
20 a. an underlying structural component that is part of said building, and  
a bottom plate resting on and connected to said underlying structural  
component of said building;  
b. a plurality of vertically-disposed studs resting on and connected to  
said bottom plate;  
25 c. a top plate resting on and connected to said vertically-disposed  
studs;  
d. a shear-resisting assembly connected to said top plate and also  
connected to said underlying structural component and disposed  
between said top plate and said underlying structural component, said  
30 shear-resisting assembly including,

1. a planar shear-resisting element, said planar shear-resisting  
element having a proximal face and a distal face, a top edge, a  
bottom edge and first and second side edges, said  
shear-resisting assembly also including,

35

BA  
C1

15  
15  
48

13  
13  
46

16  
16  
49

14  
14  
47

17  
17  
50

30

B